

Jonathan Green

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Education

2010-2017 Ph.D. in Neuroscience | The Rockefeller University, New York, NY
2007-2010 B.Sc. in Biochemistry | McGill University, Montreal, Canada

Research Appointments

2018- **Postdoctoral Fellow | Harvard Medical School**
Advisors: Christopher Harvey and Michael Greenberg
Development of cell type-specific viruses and application toward studying the roles of cortical cell types in spatial cognition in mice

2010-2017 **Ph.D. Student | The Rockefeller University**
Advisor: Gaby Maimon
Identification of cell types that generate the fly's sense of direction

2009-2010 **Undergraduate researcher | McGill University**
Advisor: Nahum Sonenberg
Biochemistry of microRNA function

Fellowships and Awards

2023 Michael E. Greenberg Outstanding Postdoc Award | Harvard Medical School

2022-2023 Postdoc Pioneers Grant | Harvard Brain Science Initiative

2019-2022 Postdoctoral Fellowship | Life Sciences Research Foundation sponsored by Vertex Pharmaceuticals

2019 Postdoctoral Fellowship | Lefler Center at Harvard Medical School

2010-2011 Postgraduate Scholarship | Canadian National Science and Engineering Research Council

2009 Undergraduate Student Research Award | Fonds de la Recherche en Santé du Québec

2009 Emily Ross Crawford Scholarship | McGill University

2009 Major Hiram Mills Scholarship | McGill University

2009 Faculty of Science Scholarship | McGill University

Publications

Green J, Bruno CA, Traunmüller L, Ding J, Hrvatin S, Wilson DE, Khodadad T, Samuels J, Greenberg ME, Harvey CD. A cell-type-specific error-correction signal in the posterior parietal cortex. *Nature* 620, 366–373 (2023).

Hrvatin S, Tzeng CP, Nagy MA, Stroud H, Koutsoumpa C, Wilcox OF, Assad EG, **Green J**, Harvey CD, Griffith EC, Greenberg ME. A scalable platform for the development of cell-type-specific viral

drivers. *eLife*. 8, e48089 (2019).

Green J, Vijayan V, Mussels-Pires P, Adachi A, Maimon G. A neural heading estimate is compared with an internal goal to guide oriented navigation. *Nature Neuroscience*. 22, 1460–1468 (2019).

Green J, Maimon G. Building a heading signal from anatomically defined neuron types in the *Drosophila* central complex. *Current Opinion in Neurobiology*. 52, 156-164 (2018).

Ferris B, **Green J**, and Maimon G. Abolishment of Spontaneous Flight Turns in Visually Responsive *Drosophila*. *Current Biology*. 28, 170-180 (2018).

Green J, Adachi A, Shah K, Hirokawa J, Magani P, Maimon G. A neural circuit architecture for angular integration in *Drosophila*. *Nature*. 546, 101-106 (2017).

Fabian MR, Cieplak MK, Frank F, Morita M, **Green J**, Srikumar T, Nagar B, Yamamoto T, Raught B, Duchaine TF, Sonenberg N. miRNA-mediated deadenylation is orchestrated by GW182 through two conserved motifs that interact with CCR4-NOT. *Nature Structural & Molecular Biology*. 18, 1211-1217 (2011).

Patents

Green J, Harvey CD, Bruno CA, Greenberg ME. AAV vectors for suppression of off-target expression and uses thereof. Patent Application US 63/358,820, filed on July 6, 2022.

Talks

March 2023	COSYNE Montreal, Canada
October 2022	Broad Institute Next Generation in Biomedicine Symposium Cambridge, MA
September 2022	Ascona Meeting on Neuronal Circuits Ascona, Switzerland
September 2022	Lefler Symposium Harvard Medical School, Boston, MA
March 2022	CSHL Neuronal Circuits Cold Spring Harbor, NY

Outreach

2022-2023	Mentor, Program in Neuroscience Post-Baccalaureate (PiNBAC) Harvard Medical School
2012, 2013	Mentor, Summer Neuroscience Program The Rockefeller University
2011	Teacher Biobus

Teaching

2014	Teaching Assistant, Membrane Biophysics The Rockefeller University
2009-2010	Director of Academic Affairs, Biochemistry Student Society McGill University

Mentoring

2023	Erin Tam, Research Assistant Harvard Medical School
2023	Henry Kyoung, Graduate Student Harvard Medical School
2023	Tarek Jabri, Graduate Student Harvard Medical School
2022-2023	Jonathan Samuels, Program in Neuroscience Post-Baccalaureate (PiNBAC) Student Harvard Medical School
2022-2023	Thomas Khodadad, Research Assistant Harvard Medical School
2021	Destinee Aponte, Graduate Student Harvard Medical School
2019-2022	Carissa Bruno, Research Assistant Harvard Medical School
2014	Pablo Magani, Summer Undergraduate Research Student The Rockefeller University
2013	Joseph Varikooty, Summer Neuroscience Program The Rockefeller University
2013	Bennett Ferris, Rotation Student The Rockefeller University